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L1: Entry 2 of 2

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Apr 28, 2000

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TITLE: Method of reducing or inhibiting alkaline darkening of mechanical pulp caused by presence of calcium carbonate filler in the production of paper by the addition a sulfite or sulfur-containing reducing agent

Basic Abstract Text (1):

NOVELTY - Method of inhibiting alkaline darkening of a mechanical pulp in the presence of a calcium carbonate filler comprises: providing an aqueous suspension of a mechanical pulp for producing paper, and incorporating in the suspension a calcium carbonate filler for producing paper with the pulp, and a sulfite.

Basic Abstract Text (2):

DETAILED DESCRIPTION - **INDEPENDENT CLAIMS** are also included for: (a) a method of inhibiting alkaline darkening of mechanical pulp by, adding a calcium carbonate filler and a sulfur containing reducing agent to an aqueous suspension of a mechanical pulp, the reducing agent being effective to reduce quinones to hydroquinones in a mechanical pulp; and (b) an aqueous paper manufacture suspension comprising: a mechanical pulp, a calcium carbonate filler and a sulfite in an aqueous vehicle, the suspension having a pH of at least 6.5, and the sulfite inhibiting alkaline darkening of the mechanical pulp.

Basic Abstract Text (3):

USE - The darkening of mechanical pulp in paper making is reduced or inhibited. The method can be used to enable successful conversion of acid to neutral/alkaline papermaking. The method can be used in the production of newsprint and mechanical pulp printing grades of paper.

Patent Assignee Terms (1):

PULP & PAPER RES INST CANADA

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Equivalent Abstract Text (1):

NOVELTY - Method of inhibiting alkaline darkening of a mechanical pulp in the presence of a calcium carbonate filler comprises: providing an aqueous suspension of a mechanical pulp for producing paper, and incorporating in the suspension a calcium carbonate filler for producing paper with the pulp, and a sulfite.

Equivalent Abstract Text (2):

DETAILED DESCRIPTION - **INDEPENDENT CLAIMS** are also included for: (a) a method of inhibiting alkaline darkening of mechanical pulp by, adding a calcium carbonate filler and a sulfur containing reducing agent to an aqueous suspension of a mechanical pulp, the reducing agent being effective to reduce quinones to hydroquinones in a mechanical pulp; and (b) an aqueous paper manufacture suspension comprising: a mechanical pulp, a calcium carbonate filler and a sulfite in an aqueous vehicle, the suspension having a pH of at least 6.5, and the sulfite inhibiting alkaline darkening of the mechanical pulp.

Equivalent Abstract Text (3):

USE - The darkening of mechanical pulp in paper making is reduced or inhibited. The method can be used to enable successful conversion of acid to neutral/alkaline papermaking. The method can be used in the production of newsprint and mechanical pulp printing grades of paper.

Standard Title Terms (1):

METHOD REDUCE INHIBIT ALKALINE DARK MECHANICAL PULP CAUSE PRESENCE CALCIUM CARBONATE
FILL PRODUCE PAPER ADD SULPHITE SULPHUR CONTAIN REDUCE AGENT